

Automatic Broaching Lines and (Cont.)

SOV/5861

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22. Automatic line for machining the handles of adjustable wrenches

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AVAILABLE: Library of Congress

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DV/wrc/jw
1/17/62

YUDOVINA, S. A.

Interaction of gravitational and electroosmotic water flow in
a porous medium. Trudy Len. gidromet. inst. no.11:220-234
'61. (MIRA 16:1)

(Soil percolation)

GOHELIK, B.V., dotsent, kandidat tekhnicheskikh nauk; LEVINSOB, A.Z.
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assistent.

Electric and optical hygrometer. Elektrichesstvo no.1:80-82 Ja '49.
(Hygrometry)
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SAKS, V.N., geolog; SHUL'GINA, N.I., paleontolog; BASOV, V.A.,
mikropaleontolog; YUDOVNYY, Ye.G.

Preliminary data on Jurassic and lower Cretaceous sediments
in the Anabar Valley and in Anabar Bay obtained in 1958. Inform.
biul. NIIGA no.11:22-30 '58. (MIRA 12:6)

1. Institut geologii Arktiki (for all). 2. Chlen-korrespondent
Akademii nauk SSSR (for Saks).
(Anabar region--Geology, Stratigraphic)

RONKINA, Z.Z.; BASOV, V.A.; YUDOVNYY, Ye.G.; OCHAPOVSKIY, L.B.

Results of specific research in the Bol'shoy Begichev Island
and Khara-Tumus Peninsula in 1959. Inform. biul. NIIGA no.17:
45-52 '59. (MIRA 13:11)

(Bol'shoy Begichev Island—Geology, Stratigraphic)
(Khara-Tumus Peninsula—Geology, Stratigraphic)

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CIA-RDP86-00513R001963110019-0

Preparation of the C-14 labeled thymidine cells
Kloesner, B. 12/20/85
Given C-14 2-4g 1177g
1000 200 2-4g 1177g

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CIA-RDP86-00513R001963110019-0"

Preparation of trimethylsilyl cyanuric acid. N. V. Klimov, B. I. Pavlov, I. M. Yurin, and B. D. Yudin. *Zh. Org. Khim.* 24, 5058 (1958).—Furfurylamine (0.7 g.) was added to 1 ml. H₂O treated with 15 g. powdered K₂CO₃, then 4 g. occurring, with 50 g. MeI at 15–20°, the excess MeI dried, after 1 hr. at 0–5°, the residue dried, washed, and with 0.5 ml. EtOH, and the salt, treated with EtOAc on 100°, gave 3,3',3''-trimethylsilyl cyanuric acid, m.p. 118–120°. Similarily, m.p. 118–120°, and 3,3',3''-furyl cyanuric acid, m.p. 118–120°, were obtained. In the presence of K₂CO₃ gave, in 1 hr. at 40–45°, 65–70% trimethylsilyl cyanuric acid, m.p. 118–120°, also obtained from trimethylsilyl cyanuric acid, m.p. 118–120°, and 3,3',3''-trimethylsilyl cyanuric acid, m.p. 118–120° (from EtOH–BuOAc). G. M. Kiselev.

SKOMOROVSKIY, Ya.Z., kand. tekhn. nauk; TROKOV, A.F.; YUDOVSKIY, D.G.

Determining the true angle of rotation of a pipeline laying on
the transverse slope of an area. Trudy VNIIT no.15:161-165 '63.
(MIRA 17:11)

YUDOVSKIY, O.V.

Random numbers transducer used for solving boundary value problems by mathematical statistics in the development of oil and gas reservoirs. Izv. vys. ucheb. zav.; neft' i gas' 7 no.3:103-105 '64. (MIRA 17:6)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina.

L 1000-20 EWT 1:
ACC NR: AT6017642

(A)

SOURCE CODE: UR/2982/65/000/058-110019-0

AUTHOR: Yudovskiy, O. V.

48
Br1

ORG: None

TITLE: Random number generators with automatic correction

SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti. Trudy, no. 58, 1965. Elektronika i vychislitel'naya tekhnika v neftyanoy, gazovoy i khimicheskoy promyshlennosti (Electronics and computer engineering in the petroleum, gas and chemical industry), 77-79

TOPIC TAGS: computer technology, random noise signal, number, noise generator, computer component

ABSTRACT: The author describes two systems for generating random numbers with automatic correction. In the first system (see figure 1) a noise signal is sent from ИШ through amplifier Y to the input of shaper Φ. The square pulses from the shaper are fed to the input of rectifier P which is closed until control pulses are received from the generator ГИ. The arrival of a control pulse opens rectifier K and a random number is formed in register Р in a time interval Δt determined by the duration of the control pulse. The value of the resultant number is determined by elementary logic circuit CO and a pulse is sent to counter C4₁ or C4₂ depending on whether the number

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falls in the first or last interval for division of the section. Numbers which do not fall into either of these sections are thrown out. The cycle is repeated until the entire sample n has been taken, and a control pulse is then fed from the sampling counter C_3 to counters C_1 and C_2 which send control signals to comparator C proportional to the weights of the digital places in the counters. A control signal is sent from this comparator to the grid of the shaper tube which increases or reduces the level of the noise signal necessary for forming the square pulses. The second system (see figure 2) is designed for generating random numbers according to a pre-determined arbitrary distribution law. A variational series of numbers distributed according to the given law is periodically generated in the form of a voltage curve by generator Γ_3 . A number generator with homogeneous distribution (ΔC_{pp}) is used for random and equally probable sampling of amplitudes on the voltage curve. The uniformly distributed numbers are fed to counter C_4 . Various numbers of cadence pulses from generator Γ_4 are required for overfilling counter C_4 depending on the magnitude of the number fed to the counter. The pulse generator is started simultaneously with generator Γ_3 after formation of the number in counter C_4 . Thus the time intervals from triggering of generator Γ_4 to the appearance of the overfill unit in counter C_4 are random quantities uniformly distributed with respect to the time interval. The overfill unit in counter C_4 opens rectifier K at random moments. This means that when time τ for generation of the voltage curve coincides with the time τ' necessary for filling empty counter C_4 , a voltage with a definite magnitude appears at the output of rectifier K at the moment when it opens. If the process is repeated N times, there

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are N randomly distributed equally probable voltages produced by generator Г3. The continuous random quantities may be changed to discrete form by voltage-to-code convertor HK and fed to buffer register БР. Control pulse ВУ triggers the device. Orig. art. has: 2 figures.

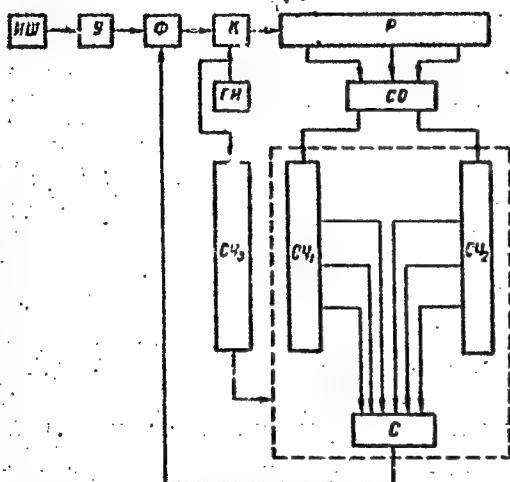


Figure 1. Block diagram for the random generator with homogeneous distribution:
 ИШ—noise source; У—amplifier; Ф—shaper;
 К—rectifier; ГП—control pulse generator;
 СЧ₁ and СЧ₂—number counters; СЧ₃—sample space counter; С—comparator; CO—device for evaluating the magnitude of the number.

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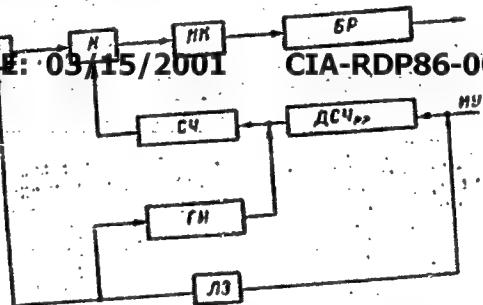


Figure 2. Block diagram of the system for generating random numbers according to a predetermined arbitrary distribution law: Г3—voltage generator; К—rectifier; HK—voltage-to-code convertor; БР—buffer register; СЧ—counter; ДСЧпп—generator for homogeneously distributed random numbers; ГП—cadence pulse generator; ЛЗ—delay line; ВУ—control pulse.

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 000

YUDOVSKIY, Oleg Vladislavovich, aspirant

Transducer of random numbers. Izv. vys. ucheb. zav.; elektromekh.
7 no. 5:607-611 '64. (MIRA 17:9)

1. Kafedra elektroniki i vychislitel'noy tekhniki Moskovskogo
instituta neftekhimicheskoy i gazovoy promyshlennosti.

FUNKE, V.F.; YUDOVSKIY, S.I.; SAMSONOV, G.V.
Alloys of the system B, Ti, Fe. Zhur. prikl. khim. 34 no.5:
1013-1020 My '61. (MIRA 16:8)
(Boron-titanium-iron alloys)

IVANOV, Ya.; YUDOVSKII, V.

"Revaluation of capital assets" by P.Bunich; "Organization
of work for the revaluation of capital assets" by V.Gorelik,
V.Ostroumov; "Methods for determining the depreciation of
capital assets" by V.Anisimov, V.Ostroumov. Reviewed by E.Ivanov,
V.Iudovskii. Fin.SSSR 20 no.10:89-92 O '59.

(MIRA 12:12)

(Valuation) (Bunich, P.) (Gorelik, V.) (Anisimov, V.)
(Ostroumov, V.)

Yudson, A.A.

133-2-4/19

AUTHORS: Borodin, V.P., Darmanyan, P.E., Yudson, A.A. and Vasil'jev,
A.V. (Engineers)

TITLE: A Four-Period System of the Complex Automatic Control of
Thermal Conditions of a Fuel-Oil Fired Open Hearth Furnace
(Chetyrekhperiodnaya skhema svyazannogo avtoregulirovaniya
teplovogo rezhima mazutnoy martenovskoy pechi)

PERIODICAL: *Stal'*, 1958, Nr 2, pp.114-120 (USSR)

ABSTRACT: A scheme of automatic control of thermal conditions of
oil-fired open hearth furnaces developed by the Central
Laboratory of Automation and installed on the Nr 10 furnace
of the above works is described. The scheme operates accord-
ing to four programmes corresponding to four technological
periods of the smelting process. Programme 1 includes a
considerable part of the charging period and two thirds of
the melting period; it is switched on by a motor relay of
time, operated by photorelay during the tapping of steel.
Programme 2 includes the remaining part of the smelting
period; it is switched on by a motor relay of time operated
when a stable excess in the preset roof temperature is
attained. Programme 3 includes the refining period and is
switched on by a motor relay of time operated at the moment
of tapping slag. Programme 4 includes the fettling period

Card 1/2

133-2-4/19

A Four-Period System of the Complex Automatic Control of Thermal Conditions of a Fuel-Oil Fired Open Hearth Furnace.
and the beginning of the charging period of the next heat. Changing of programmes can also be hand operated. The scheme is shown in Fig.1. Fuel consumption is controlled according to the temperatures of the roof and regenerators. The following parameters are controlled: consumption of fuel oil, air-fuel ratio, amount of compressed air used in the atomiser, pressure of gases in the furnace, reverses, waste gas temperature at the bottom of the regenerators and draught in the waste gas flue. Characteristic data on the furnace on which the scheme was operated, operating practice and operating results are briefly described. The scheme operated satisfactorily, but the final conclusion regarding the efficiency of the scheme can be made only after an analysis of operating results of a few furnace campaigns. There are 9 figures.

ASSOCIATION: "Krasniy Oktyabr" Works and TsIA (Zavod "Krasnyy Oktyabr" i TsIA)

AVAILABLE: Library of Congress.

Card 2/2

KUDRIK, V.A.; OYKS, G.N.; SCROKIN, S.P.; NECHNIK, Yu.N.; GLUSHT, V. V.;
NAM, B.P.; LAPSHOVA, N.P.; YUDSON, A.A.; PETRENKO, G.I.;
ADRIANOVA, V.P.

Smelting high-grade steel in open-hearth furnaces fired with
natural gas. Stal' 20 no. 7:599-602 J1 '60. (MIRA 14:5)
(Open-hearth furnaces--Equipment and supplies)

YUDSON, A.A.

85

PHASE I BOOK EXPLOITATION

SOV/5556

Moscow, Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1951. 439 p. (Series: Trudy Mezhdunarodnogo nauchnogo soveshchaniya, 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya
RSFSR, Moskovskiy institut stali imeni I. V. Stalina.

Eds.: N. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavovskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

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New [Developments] in the Theory (Cont.)

S07/5556

COVERAGE: The collection contains papers reviewing the development of open-hearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquettes or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, E.P. Nam, V.I. Tavrovskiy, G.N. Gyks and Ye. V. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot" Metallurgical Plant); V.A. Pukov (Central Asian Polytechnic Institute).

Card 2/14

New [Developments] in the Theory (Cont.)

SGV/5556

and M. I. Belylinov (Night School of the Dneprodzerzhinsk Metallurgical Institute). References follow some of the articles. There are 268 references, mostly Soviet.

TABLE OF CONTENTS:

Foreword

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Yavovskiy, V. I. [Moskovskiy institut stali - Moscow Steel Institute].
Principal Trends in the Development of Scientific Research in Steel
Manufacturing

7

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Institute]. Regularity Patterns of the Kinetics of Carbon Oxidation
in Metals With Low Carbon Content
[V. I. Antonenko participated in the experiments]

15

Levin, S. L. [Professor, Doctor of Technical Sciences, Dnepropetrovskiy
metallurgicheskiy institut - Dnepropetrovsk Metallurgical Institute].

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New Developments in the Theory (Cont.)

SOV/5555

Kapustin, Ye. A. [Docent, Candidate of Technical Sciences, Zhdanov Metallurgical Institute]. Aerodynamic Properties of Fuel Gases and Their Flow in the Combustion Chamber of an Open-Hearth Furnace

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Kudrin, V.A. [Docent, Candidate of Technical Sciences], G.N. Oyks, O.D. Petrenko, A.A. Yudnon, Yu. M. Nechkin, B.P. Nam, [Engineers], I.I. Ansheles [Docent, Candidate of Technical Sciences], R.M. Ivanov [Candidate of Technical Sciences], and V.P. Adrianova [Engineer]. Special Features of Making High-Quality Steel in Natural-Gas-Fired Open-Hearth Furnaces

280

Butakov, D.K. [Docent], L.M. Mel'nikov [Engineer], A.N. Lirman, V.D. Budenny, P.P. Babich, and A.I. Sankovich [Ural Polytechnic Institute, Zavod im. Ordzhonikidze Chelyabinskogo sovzarkhoza - Plant imeni Ordzhonikidze of the Chelyabinsk Sovzarkhoz]. Special Features of Making Steel in Open-Hearth Furnaces With Magnesite-Chromite (Brick) Roofs

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Kudrin, V.A., Yu. M. Nechkin, Ye. I. Tyurin [Candidate of Technical Sciences], and Ye. V. Abrosimov [Moscow Steel Institute]. The Acid Open-Hearth Process

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BORODIN, V.P.; MARCHENKOVSKIY, G.F.; DARMANYAN, P.E.; YUDSON, A.A.;
KUROCHKIN, B.N.

Furnace operations with heat insulated arches. Metallurg 6 no.2:
15-17 F '61. (MIRA 14:1)

1. Zavod "Krasnyy Oktyabr" i Vsesoyuznyy nauchno-issledovatel'skiy
institut metallurgicheskoy teplotekhniki.
(Open-hearth furnaces) (Refractory materials)

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YUDUSHKIN, N.G.

GOSTEV, B.I., kandidat tekhnicheskikh nauk; USHAKOV, A.D., kandidat tekhnicheskikh nauk; KOBONOVA, T.A., inzhener; AKOPYAN, S.I., kandidat tekhnicheskikh nauk, redaktor; VASIL'YEV, A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI, M.E., professor, redaktor; L'VOV, Ye.D., professor, redaktor; MALASHKIN, O.M., inzhener, redaktor; YUDUSHKIN, N.G., inzhener, redaktor; MODELL, B.I., tekhnicheskii redaktor.

[Investigating cast iron with spheroidal graphite inclusions and its use for tractor parts] Issledovanie chuguna so sfereidal'noi formoi grafite i primenenie ego dlia traktornykh detalei. Meskva, Gos.nauchno-tekhn.izd-vo machinestreit.lit-ry, 1943. 36 p. (Moscow. Gosudarstvennyi sciuznyi nauchno-issledovatel'skii traktornyi institut [Trudy], no.7) (MLRA 9:1)

1. Director nauchno-issledovatel'skogo tekhnologicheskogo instituta (for Akopyan).

(Cast iron) (Tractor industry)

GAS PRODUCER TRACTORS GB-58 AND GT-58. Velichkin, I. N., Yudushkin, V. G.
and Artamonov, M. D. (Auto. i Trakto. Prom. (Auto. and Tractor Prom.)
July 1951, 6-15

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ARTAMONOV, N.D., kandidat tekhnicheskikh nauk; VELICHKIN, I.N., inzhener;
AKOPYAN, S.I., kandidat tekhnicheskikh nauk, redaktor; GOSTEV, B.I.,
kandidat tekhnicheskikh nauk, redaktor; VASIL'YEV, A.V., kandidat
tekhnicheskikh nauk, redaktor; KRISTI, M.K., professor, redaktor;
L'VOV, Ye.D., professor, redaktor; MALASHKIN, O.M., inzhener, redak-
tor; YUDUSHKIN, N.G., inzhener, redaktor.

[Investigation of the G-58 gas engine] Issledovanie gazogeneratornogo
dvigatelya G-58. Moskva, Gos.nauchno-tekh.izd-vo mashinostroit. lit-yy,
1954. 26 p. (Moscow. Gosudarstvennyi sciuznyi nauchno-issledovatel'skii
traktornyj institut [Trudy], no.11). (MIRA 9:1)

1. Direktor nauchno-issledovatel'skogo avtotraktornogo instituta (for
Akopyan). (Gas and oil engines)

YUDUSHKIN, N. G.

MAIAKHOVSKIY, V. E., kandidat tekhnicheskikh nauk; AKOPYAN, S. I., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; GOSTEV, B. I., kandidat tekhnicheskikh nauk, zamestitel' direktora po nauchnoy rabote; VASIL'YEV, A. V., kandidat tekhnicheskikh nauk, redaktor; KRISTI, M. K. professor, redaktor; L'VOV, Ye. D., professor, redaktor; MALASHKIN, O. M., inzhener, redaktor; YUDUSHKIN, N. G., inzhener, redaktor; PONOMAREVA, K. A., inzhener, redaktor; KATSEVA, Ye. N., tekhnicheskiy redaktor.

[Investigation of the efficiency of tractor transmission systems]
Issledovanie koefitsienta poleznogo deistviia traktornykh transmissii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 50 p. (Moscow, Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut. Trudy, no.10) (MLRA 8:9)

1. Direktor NAMI (for Akopyan). 2. Zam. direktora po nauchnoy работе (for Gostev).

(Tractors--Transmission devices)

✓
4919. *PRIVADA GAS PLANT ONE*. THE PLANT IS LOCATED IN TOWN OF TECO, (PROV. TECO, MEXICO), 1950. THE PLANT HAS 24 PAGES ON BEAT AND BEAT BRICKETTE AS FUEL FOR HEATING.

YUDUSHKIN,
N.G.

AKSEVICH, A.I., inzhener; AKPYAN, S.I., kandidat tekhnicheskikh nauk,
redaktor; GOSTEV, B.I., kandidat tekhnicheskikh nauk, redaktor;
VASIL'YEV, A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI, N.K.,
professor, redaktor; L'VOV, Ye.D., professor, redaktor; MALASHYIN, O.H.,
kandidat tekhnicheskikh nauk, redaktor; YUDUSHKIN, N.G., inzhener, re-
daktor; POPOVA, S.M., tekhnicheskiy redaktor.

[New methods for determining the wear rate of tractor engine parts]
Primenenie novykh metodov opredeleniya velichiny iznosa detalei trak-
tornogo dvigatelya. Moskva, Gos.nauchno-tekhn. Izd-vo mashinostroit.
lit-ry, 1956. [Trudy], no.14) (MLRA 9:10)

1. Direktor nauchno-issledovatel'skogo avtotraktornogo instituta
(for Akopyan). (Tractors--Engines)

YUDUSHKIN, N.G.

ZUBIYETOV, I.P., inzh.; AKOPYAN, S.I., kand. tekhn. nauk, otv. red.; GOSTEV, B.I., zam. otv. red.; VASIL'YEV, A.V., kand. tekhn. nauk, red.; KRISTI, M.K., prof. red.; L'VOV, Ye.D., prof., red.; MALASHKIN, U.M., kand. tekhn. nauk, red.; YUDUSHKIN, N.G., inzh., red.; UVAROVA, A.P., tekhn. red.

[Standardizing fuel pump plungers used in the D-35 and D-54 tractor diesel engines] Unifikatsiya plunzherov toplivnykh nasesov dlia traktornykh dizelei D-35 i D-54, Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry 1956. 14 p. (Moscow, Gosudarstvennyi nauchnyi nauchno-issledovatel'skii traktornyj institut. [Trudy] no.15). (MLRA 10:0)

1. Direktor nauchno-issledovatel'skogo avtotraktornogo instituta (for Akopyan). 2. Zamestitel' direktora po nauchnoj rabote nauchno-issledovatel'skogo avtotraktornogo instituta (for Gostev).
(Tractors--Engines)

YUDUSHKIN, N.G., inzhener.

Study of the gasification of peat briquets. [Trudy] NFTI no.13:23-48
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VELICHKIN, I.N., kand.tekhn. nauk; AKOPYAN, S.I., kand. tekhn.nauk, otv.red.;
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tekhn.nauk, red.; ERISTI, M.E., prof., red.; L'VOV, Ye.D., prof.,
MAIASHKIN, O.M., kand.tekhn.nauk; YUDUSHKIN, B.G., inzh.; VASIL'YEV,
A.F., tekhn.red.

[Some characteristics of the performance of gas-producer engines]
Nekotorye osobennosti rabochego protsessa gasogeneratornykh dvigatelей
Moskva, Gos. nauchno-tekhn issd-vo mashinostroit. litry, 1949. 12.
(Moscow. Gosudarstvennyi soiuznyi nauchno-issledovatel'skiy
traktorniy institut [Trudy], no.16) (MIRA 12:3)
(Gas and oil engines—Testing)

SOV/137-58-7 Init

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 321 (USSR)

AUTHORS: Aglitskiy, V. A., Yudytksiy, A. P., Fedotova, Ye. I.

TITLE: On the Method of Noble-metals Assay of Blister Copper (O metodike oprobovaniya chernovoy medi na soderzhanie blagorodnykh metallov)

PERIODICAL: Tr. i materialy. Ural'skiy n. -i. i proyektn. in-t medn. prom-sti, 1957, Nr 2, pp 355-360

ABSTRACT: The method of assaying (MA) blister Cu by means of sampling the liquid metal with a special mold-ladle without pouring the metal into a test mold. Several MA of crude CU for noble metals contents are given: Pattern drilling, taking of a liquid test sample from the converter or the ladle of the casting machine and granulation of liquid metal. The comparative character of the results obtained with different MA is given. It is shown that in taking the test by means of drilling the solid metal difficulties are encountered owing to the dirt present on the surface of the ingot, the uneven distribution of noble metals in the different sections of the ingot, and the different degrees of fineness of the separate structural components of the ingot.

Card 1/2

SOV/137-58-7-16169

On the Method of Noble-metals Assay of Blister Copper

in a different composition of the fine and the coarse fractions of the chips. The latter complicates the preparation of the test sample of chips for the analysis. It is determined that in the sampling of liquid crude Cu a great influence on the validity of the taking of the sample is exerted by the phenomena of liquation. The presence of liquation phenomena during the solidification of blister Cu has a telling effect on the noble-metal content in relation to the spot from which the sample was taken during the casting of Cu, whereas in the granulation of Cu its effect depends on whether the granulated metal is drawn directly from the stream of the metal tested or is granulated from the ladle.

A. M.

1. Copper--Analysis 2. Copper (Liquid)--Sampling 3. Copper
--Test methods

Card 2/2

~~YUDYTSKII, A.P.~~

Underground copper leaching practices. Biul TSIIN tsvet. met. no.1:
23-26 '58. (MIRA 11:4)
(Copper ores) (Leaching)

YUDYTSKIY, A.P., inzh.

Potentialities of the copper industry. Gor. zhur. no.4:7-8 Ap '60.
(NPA 14:6)

1. Unipromed', Sverdlovsk.
(Copper mines and mining)

YUDZON, I. F.

"Impracticality in Communications Construction Planning," Vest. Svyazi,
No.3, pp 23-24, 1954

Deputy Chief, SNU Lentslefonstroy

Translation Trans. No. 533, 6 Apr 56.

YUDZON, I.P.

High labor productivity is the basis of production achievements
in building communication installations. Vest. sviazi 17 no.3:
28 Mr '57. (MLRA 10:4)

1. Zamestitel' nachal'nika stroitel'no-montazhnogo upravleniya
"Lentelefonstroya".
(Telecommunication) (Building)

Novosibirsk
NEVSKIY, V.A.; YUDZON, I.F.

Eliminate the causes of unprofitableness in installation work.
Vest.sviashi 17 no.6:25 Je '57. (LMLA 10:6)

1. Preizvoditel' rabot stroitel'no-montazhnogo upravleniya
"Lentelefontroy" (for Novosibirsk) 2. Samostitel' nachal'nik
stroitel'no-montazhnogo upravleniya (for Yudzon)
(Telephone)

YUDZON, O. I.

Simultaneous oscillographic video signal form control by the
scanning line and the frame. Vest.sviazi 15 no.8:25-26 Ag'55.
(MIRA 8:12)

1. Inzhener Leningradskogo teletsentra
(Television--Apparatus and supplies--Testing) (Oscillograph)

YUDZON, O. I.

TELEVISION

"Operation of Television Transmitting Tube with Long Camera Cable", by
O.I. Yudzon, Elektrosvyaz', No 8, August 1957, pp 71-73.

The author suggests a new method for compensating for the time delay produced by long television camera cables. Each camera channel contains a network, which permits time delay of the horizontal pulses of the transmitting tube by an amount equal to the difference between the duration of the line (64 microseconds) and the time delay corresponding to the length of the camera cable employed.

Card 1/1

- 52 -

1. YUPA, B. Ya - LIGGEN'KIY, S. Ya
2. USSR (600)
4. Geophysics - Novgorod Province
7. Report on the activity of the Komarovo geophysics party in the Lyubytino and Borovichi Districts of the Novgorod Province. (abstract) Izv. Glav. upr. geol. fon. no. 3, 1947
9. Monthly list of Russian Accessions, Library of Congress, March 1953, Unclassified

UFA, B.Ia.

Remarks on I.P.Sharapov's article "Control analyses of geological specimens." Reviewed by B.Ia.Ufa. Razved. i okh. nadr 20 no.5:60-63 S-0 '54. (MLRA 10:1)
(Mineralogy, Determinative) (Ore--Sampling and estimation)

YUFA, B.Ya,

Concerning V.L. Sharshkin's errors in check sampling. Trudy Inst.
geol. AN Kir. SSR no.10:193-200 '58. (NIRE 12:9)
(Ores--Sampling and estimation)

OZHINISKIY, I.S.; SOKOLOV, P.V.; YUPA, B.Ya.; MUKHIN, S.S., red.izd-va;
BYKOVA, V.V., tekhn.red,

[How to prospect for uranium ores] Kak iskat' uranovye rudy.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane
nedr, 1959. 54 p. (MIRA 13:11)
(Prospecting) (Uranium ores)

YUFA, B.Ya.

Method for calculating occasional errors of analyses of mineral
resource appraisals. Razved. i eksp. 26 - 1972. No. 1

1. Ministerstvo geologii i okhrany nadr SSSR.
(Mines and mineral resources)

YUFA, B.Ya.

Evaluation of the accuracy of continuous recording of the results
of physical measurements. Razved. i okh. nedr 27 no.1:48-49 Ja
'61. (MIRA 17:2)

1. Ministerstvo geologii i okhrany nedr SSSR.

OZHINSKIY, I.S.; SOKOLOV, P.V.; YUFA, B.Ya.; CHUMACHENKO, Z.N., red.
izd-va; BYKOZA, V.V., tekhn. red.

[How to search for uranium ores] Kak iskat' uranovye rudy. Izd. 2.,
ispr. 1 dop. Moskva, Gosgeoltekhnizdat, 1962. 55 p. (MIRA 16:3)
(Prospecting) (Uranium ores)

YUFA, B.Ya.

Determining the quality factor of analytic radiometers.
Geofiz. prib. no. 12:82-89 '62. (MIRA 17:5)

1. Ministerstvo geologii i okhrany nedor SSSR.

YUFA, B.Ya.

Equations for mean random errors in analyses and use of these
equations for evaluating the reproduction of radiometric deter-
minations. Zav.lab. 28 no.3:329-336 '62. 'M.RA 1'

1. Ministerstvo geologii i okhrany nedor SSSR.
(Materials--Analysis) (Mathematical analysis)

YUFA, B.Ya.

Method of excluding samples with a relatively very high ore
content. Razved. i okh. nedr 28 no.8;19-23 Ag '62.
(MIRA 15:8)

1. Ministerstvo geologii i okhrany nedr SSSR.

YUFA, B.Ya.

Appraisal of the metrological parameters of a "Neutron" type
unit. Zav. lab. 30 no.7:872-875 '64. (MIRA 18:3)

YUFA, B. Ya.

"Theories of improbabilities" in B.S. Levenik's book "Problems
of economic geology". Sov. geol. 7 no.5:156-158. Mys '64
(MIRA 12:2)

YUFA, E.P., inzhener; KOBETSKIY, G.I., inzhener; CHERNITSKIY, N.M.,
inzhener.

Running-in journals of large shafts instead of grinding. Vest.mash.
36 no.10:55 0 '56. (MLRA 9:11)
(Shafts and shafting)

SCV/122-58-7-29/31

AUTHORS: Yufa, E.P., Engineer and Terlets'kiy, V.Ye.

TITLE: Powder Metallurgical Components (Metallokeramicheskiye izdeliya)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 7, pp 84-85 (USSR)

ABSTRACT: The advantages and production methods are surveyed with emphasis on electric contact and antifriction materials. Controlled porosity in contact materials enables the pores to hold the low-melting alloy fused by the breaking arc, which prevents welding. A contact pair, with a stationary contact of a silver carbon composition and a moving contact of a silver nickel composition has been successful. To increase the mechanical strength of the moving contact, a new silver nickel carbon composition permitting up to

8 kg/cm² pressure compared with 4 in the older type, has been developed under the direction of L.S. Palatnik, Doctor of Physical and Mathematical Sciences, Professor, by the Khar'kovskiy elektromekhanicheskiy zavod (Khar'kov Electric-mechanical Works) in co-operation with departments of the Khar'kovskiy gosudarstvennyy universitet (Khar'kov State University) imeni Gor'kogo and Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnical Institute)

Card1/3

Powder Metallurgical Components

SOV/122-58-7-29/31

imeni Lenina. Another group of materials, a composition of silver and cadmium oxide, is used in AC relays working in special atmospheres. The silver powder is prepared at the Khar'kov Works by the electrolytic method which produces a sponge of 10μ particles. A special method for pulverising the sponge avoids work-hardening the particle surfaces and a loss of dendritic structure. In the pressing of components, the observance of optimum pressure is vital. Experience of the Khar'kov Works has shown that the porosity can be reduced to 2-3%, instead of the customary 5-7%. Sintering is carried out in a hydrogen atmosphere at 850°C during 2.5 hours. Silver-cadmium oxide components are sintered without protective atmosphere for 1 hour at $830 - 850^{\circ}\text{C}$. Calibration follows at pressures of $4\ 000 - 5\ 000 \text{ kg/cm}^2$. Oil-impregnated bronze-graphite bearings are made by the Khar'kov Works. Iron graphite bearing sleeves up to 150 mm dia and 60 mm length for silent electric motors are being developed by the works in co-operation with the Institut metallokeramiki AN USSR (Powder Metallurgy Institute of the Ukrainian Ac.Sc. SSR). Made with 20-25% porosity, the composition contains 97% iron powder and 3% graphite. Carburising

Card2/3

Powder Metallurgical Components

SOV/122-58-7-29/31

by sintering in a carburising medium is practised on powder metallurgical iron components. It is stated that bearings of a table top fan made of an iron-graphite composition have seven times the service life of fabric reinforced plastic bearings and twice the service life of bronze graphite bearings.

There is 1 table.

Card 3/3

SOV/122-59-3-26/42

AUTHORS: Yufa, E.P., Lecturer, and Dynshits, M.A., EngineerTITLE: On the Ways of Specialisation in Tool Manufactures (O
putyakh spetsializatsii instrumental'nykh proizvodstv)PERIODICAL: Vestnik Mashinostroyeniya, 1959³⁷, Nr 3, pp 76-77 (USSR)ABSTRACT: The increased importance of specialised tooling within
the total tool requirements is emphasised. The Khar'kov
Economic Council, in promoting the specialisation of
tool manufacture, has chosen the creation of specialised
departments in the tool shops of engineering works to
produce in centralised fashion a standard range of
tools. A project was submitted to the Economic Council
by the appropriate division of the Ukrainian Branch of
the Gosplan in co-operation with the Department of
Industrial Economics and Organisation at the Khar'kov
Polytechnic Institute (Khar'kovskiy Politekhnicheskiy
Institut) 'Imeni V.I. Lenina'. Estimated savings are
stated. An average percentage is 28%. Special equip-
ment would pay off in 5 months. Nevertheless, specia-
lised enterprises could achieve much higher savings.Card 1/2 Certain types of tooling should be produced within
suitable existing manufacturing organisations. For

SOV/122-59-3-26/42

On the Ways of Specialisation in Tool Manufactures

example, portable power tools should be produced where small motors are already manufactured. Measures of standardisation needed for successful specialisation are discussed.

Card 2/2

YUFA, E.P.

[Organization of metal-cutting tool supply at a machinery plant; manual for the course "Industrial economics and organization of enterprises"] Organizatsiia instrumental'-nogo khoziaistva mashinostroitel'nogo zavoda; uchebnoe posobie po kursu "Ekonomika promyshlennosti i organizatsiia predpriatii." Khar'kov, Khar'kovskii politekhnicheskii in-t im. V.I.Lenina, 1960. 29 p. (MINA 17:4)

YUFA, Engel' Pavlovich; PAVLOV, S.P., inzh., retsenzent; PANTER, B.Ya.;
inzh., retsenzent; MIRKIN, A.A., inzh., red.; SALYANSKIY, A.A.;
red. izd-va; SMIRNOVA, G.V., tekhn. red.

[Cutting tool department of a machinery plant] Instrumental'noe
khoziaistvo mashinostroitel'nogo zavoda. Moskva, Gos.nauchno-
tekhnicheskoe izd-vo mashinostroit.lit-ry, 1961. 117 p.
(MIRA 15:1)

(Machinery industry) (Metal-cutting tools)

YUFA, Engel' Pavlovich, inzh.; KIRIYENKO, Ye.G., kand. tekhn. nauk, retsenzent; KRAVETS, V.I., inzh., red.izd-va; KOZHE, T.I., tekhn. red.

[Manufacture of metalworking tools at a machinery plant; economics, organization and planning] Instrumental'noe proizvodstvo mashinostroitel'nogo zavoda; ekonomika, organizatsiya i planirovanie. Kiev, Gostekhizdat USSR, 1963. 225 p.

(Machinery industry—Management)
(Metal-cutting tools) (Metalworking machinery)

L 08518-67 EWT(d)/EWT(m)/EWP(c)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l)
ACC NR: AM6019451

Monograph

LJP(c)

Lyapunov, Mikhail Aleksandrovich (Candidate of Technical Sciences); Tsenta, Yevgeniy Leonidovich (Candidate of Technical Sciences); YUfa, Engel' Pavlovich (Docent)

Electric pulse machining of tough metals and alloys (Elektroimpul'snaya obrabotka vysokoprochnykh metallov i splavov) Kiev, Izd-vo "Tekhnika", 65. 0149 p. illus., biblio. 2,500 copies printed.

TOPIC TAGS: metal finishing, metalworking machinery, electric metal finishing, high strength metal, high strength alloy, precision finishing

PURPOSE AND COVERAGE: This book gives the principles of electric pulse working of parts made from tough metals and alloys. Also presented is the technology of finishing sectional surface, production and reconditioning of rigging equipment. The equipment for electric pulse working (fuel supply, machinery) is described, and recommendations are made for its use. The book is considered useful to technical engineers dealing with problems in the technical preparation of the production of machine construction courses in technical institutes.

TABLE OF CONTENTS (abridged):

Preface—5

Ch. I. Main points and electrotechnical characteristics of electric pulse working—7

Ch. II. Equipment for electric pulse working—21

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2

Ch. III. Principles of the technology of electric pulse working—46

Ch. IV. Precision and quality of the surface of parts finished by electric pulse

methods—76

Ch. V. Electric pulse working of sectional surfaces, production and reconditioning

of technological rigging equipment—86

refractory metals¹⁸

Bibliography—143

SUB CODE: 09 SUEM DATE: 290ct65/ ORIG REF: 028

MASTYAYEV, N.Z.; ORLOV, I.N.; YUFEROV, F.M., dots., retsenzent;
BOBOV, K.S., prof., retsenzent; LARIONOV, A.N., prof.,
red.[deceased]

[Hysteresis motors] Gisterezisnye elektrodvigateli; po-
sobie dla diplomnogo i kursovogo proektirovaniia. Mo-
skva, Mosk. energ. in-t. Pt.2. [Problems of design] Vop-
rosy proektirovaniia. 1963. 186 p. (MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Larionov).

BALAGUROV, Vladimir Aleksandrovich; GALTYEV, Fedor Fedorovich;
LARIONOV, Andrey Nikolayevich, prof. [deceased];
BERTINOV, A.I., doktor tekhn.nauk, prof., retsenzent;
YUFEROV, F.M.; kand. tekhn. nauk, dots., red.; FRIDKIN,
L.M., tekhn. red.

[Electrical machines with permanent magnets] Elektricheskie
mashiny s postoiannymi magnitami. Moskva, Izd-vo "Energia,"
1964. 479 p.
(MIRA 17:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Larionov).

YUFA, M.A.; SLUTSKIY, S.B., red.

[Furniture manufacture; bibliography of Soviet and foreign literature of 1958-1960 (first half year)] Proizvodstvo mebeli; bibliograficheskii ukazatel' otechestvennoi i inostrannoi literatury za 1958-1960 gg. (pervoe polugodie).
Moskva, 1960. 144 p. (MIRA 15:5)

1. Moscow. TSentral'naya nauchno-tehnicheskaya biblioteka lesnoy i bumazhnoy promyshlennosti.
(Bibliography—Furniture)

BOLDENOV, R.P.; PEYCH, N.N., red.; YUFA, M.A., otv. red.

[Heat treatment of wood; bibliographic index of the Soviet literature for 1935-1961 for engineers and technicians] Teplovaia obrabotka drevesiny; bibliograficheskii ukazatel' otechestvennoi literatury dlia inzhenerno-tehnicheskikh rabotnikov za 1935-1961 gg. Moskva, Gos.kom-t Soveta Ministrov RSFSR, 1962. 16 p. (MIRA 15:8)

1. Moscow. Tsentral'naya nauchno-tehnicheskaya biblioteka lesnoy i bumazhnoy promyshlennosti.
(Bibliography—Wood—Heat treatment)

YUFA, M.A., otv. red.

[Utilization of the wastes of the lumbering, sawmill and wood-working industries; bibliographic index of foreign literature for the period from 1955 to 1961] Ispol'zovanie otkhodov lesozagotovitel'noi, lesopil'noi i derevocobrabatyvaiushchei promyshlennosti; bibliograficheskii ukazatel' inostrannoi literatury za 1955-1961 gg. Moskva, GOSINTI, 1962. (3 p.)

(MIRA 15:10)

1. Moscow. TSentral'naya nauchno-tehnicheskaya biblioteka lesnoy i bumazhnnoy promyshlennosti.

(Bibliography---Wood waste)

TVERDOVSKAYA, N.N.; OTLIVANCHIK, A.N., red.; YUFA, M.A., otv. red.

[Production of particle boards; bibliographical index of
Soviet and foreign literature for 1960-1961] Proizvodstvo
drevesnykh plit; bibliograficheskii ukazatel' otechestven-
noi i inostrannoi literatury za 1960-1961 gg. Moskva,
1962. 93 p. (MIRA 16:10)

1. Moscow. TSentral'naya nauchno-tehnicheskaya biblioteka
lesnoy i bumazhnoy promyshlennosti.
(Bibliography--Particle board)

MAZARSKIY, S.M.; YUFA, M.S.

Sulfur dioxide exhaust fans made of vinyl plastics. Buz.prom. 32
no.2:16-17 P '57. (MLRA 10:5)

1.Rukovoditel' gruppy na tipovogo oborudovaniya Giprobuma (for Mazar-
skiy) 2.Nachal'nik kislotnogo tsakha Syas'skogo tsellyulozno-bumazhnogo
kombinata (for Yufa)
(Sulfur dioxide) (Exhaust systems) (Plastics)

YUFH, M.S.

VLADIMIRSEV, V.P.; YUVA, N.S.

Use of conical vortex purifiers for the cleaning of tower acid,
Bum, pros. 32 no.7:21 J1 '57. (MIRA 10:11)

1. Syas'skiy tselyulokso-bumazhnyy kombinat.
(Sulfuric acid)
(Chemical engineering--Equipment and supplies)

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SOV/104-5-5-0/17

AUTHORS: Varentsov, P.V., Candidate of Technical Sciences, Yufa, M.S., Engineer

TITLE: The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

PERIODICAL: Khimicheskoye mashinostroeniye, 1959, Nr. 5, pp. 22-26 (USSR)

ABSTRACT: An attempt is made to describe the motion of a layer of solid particles in a tubular rotary kiln, using the dimensional analysis to determine the function of different factors affecting the motion of the layer, and to establish conditions of furnace modeling. The law of motion of a layer of solid particles can be expressed as a function of the following variables:

$$\omega_s = f(\omega_g, \gamma_g, \gamma_s, \mu, d_s, D_K, \alpha_K, g, \beta_s, L_K, \ell_v)$$

where: ω_s - velocity of motion of solid particles, m/sec; ω_g - velocity of motion of the gas flow in the kiln, m/sec; γ_g - specific gravity of the gas, kg/m³; γ_s - specific gravity of solid particles, kg/m³; μ - gas viscosity, kg/sec · m²; d_s - dimensions of solid particles, m; D_K - inner diameter of the kiln, m; α_K - period of rotation of the kiln, m/sec; α_K - angle of inclination of the kiln, degrees; g - gravity acceleration, m/sec²; β_s - angle of

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The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

repose of solid particles, degrees; L - length of the kiln, m, φ_K - degrees of filling of the kiln cross-section, m^2 . According to the $\overline{\Pi}$ -theorem of the dimensional theory, three criteria and two simplexes are derived. The explicit form of functional connection between the similarity criteria was established experimentally. The experiments were carried out using a kiln of 6 m length and 710 mm outer diameter. The inner diameter was 300 and 550 mm, depending upon the test conditions. The gas-fired kiln was equipped with all the necessary instruments and worked according to the counter-current principle. Four materials of different specific gravity were used: unsorted pyrite, crushed marble sand and coke. Each material was divided into four fractions by screen sizing. The average size of particles of each fraction was determined with the " ϕP_{-1} " instrument. The angle of repose was determined by the method of Koler (Ref. 11). The mean gas velocity was determined by the primary and secondary air consumption and by the amount of the gas. The charging time was twice the time the material stayed in the kiln. The instruments readings were recorded at 30-minute intervals during the second half of the tests. After each test the average stay of the material in the kiln was determined by the method of

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The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

the weight of the discharged material by the average hourly charge. The graph, Figure 6, shows that the gas temperature variation does not affect the velocity of the layer of solid particles and can be expressed by a constant coefficient, depending only on the specific gravity of the material. The maximum difference of the values ω_s/ω_k for coke (specific gravity 1,944 kg/m³) and unsorted pyrite (specific gravity 4,384 kg/m³) was about 19%. Consequently, if for these materials one mean coefficient is taken, the maximum error will be 9%. Thus the criterion L_k/d_s can be neglected. The graph, Figure 1, shows that the dependence of ω_s/ω_k on L_k/d_s is expressed by different materials by closely spaced horizontal lines. Consequently, the mean velocity of a layer of solid particles is practically independent of the kiln length and the criterion L_k/d_s can be neglected. An equation is derived:

$$\frac{\omega_s}{\omega_k} = m Re^{-0.01} Ga^{0.33} \left(\frac{d_k}{d_s} \right)^{0.66} \left(\frac{v_k}{d_s^2} \right)^{0.08} \left(\frac{D_k}{d_s} \right)^{0.90}$$

where m - coefficient depending on the kiln diameter. The coefficient m was determined experimentally for diameters 0.3 m and 0.55 m. For other diameters, it was computed. The velocity of the material in

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The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

kilns of different diameters was calculated by the formula of Sullivan, Maier and Ralston (Ref. 1), which gives results fairly near to reality. The graph, Figure 9, shows that the experimental values of m are sufficiently close to the curve calculated by the above formula. There are 8 graphs, 1 diagram, 1 table and 11 references; 3 Soviet, 3 German and 5 English.

✓

Card 4/4

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963110019-0

YUDE, M.D. CHUDOROVICH, G.P. VARENITSOV, M.V.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963110019-0"

USSR

✓ Synthesis of 4,4'-dinitrophenyl sulfide. T. G. R. P. N. and P. A. Yula, Ukraine, *Khim. Zher.* 20, 71-72 (1938; Russian); "4,4'-Dinitrophenyl sulfide (I), of which the synthesis of 4,4'-dinitrophenyl sulfone and its salts can be produced in yield greater than that obtained by Gabel and A. L. Shvartsler (C.A. 36, 6264) if the Na₂S used contains some Na₂S₂. 4-Nitrochlorobenzene (3), 5 g. was dissolved by heating in 200 ml. of EtOH and a soln. of 24 g. cryst. Na₂S and 0.04 g. S to 72 ml. water added dropwise during 1 hr. to the gently boiling soln. After heating on a boiling water bath for 6 hrs., the ppt. was filtered off, washed with EtOH and hot water, and dried; m.p. 147-4% I, m. 150-7° (from glacial ArOH). Clayton P. Hess vj

Y 1/14/01
SERBRYANY, S.B. YUPA, P.A.

Synthesis of 1-oxyphenazine derivatives. Ukr.khim.zhur. 22
no.4:512-513 '56. (MIRA 10:10)

1.Institut organicheskoy khimii AN USSR.
(Phenazine)

USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19224.

Author : Syerebryanyi S. B., Yufa P.A.

Inst :

Title : Synthesis of 1-hydroxyphenazine Derivatives. 6. Haloid Derivatives of 1-hydroxyphenazine.

Orig Pub: Ukr. Khim. zh. 1956, 22, No 4, 512-513.

Abstract: By desalkylation of corresponding methoxyderivatives 6-chlor-(I), 7-chlor-(II), 8-chlor-(III) and 7-brom-(IV)-1-hydroxyphenazines were obtained. A mixture of 0.2 mole o-nitroanisole, 0.2 mole n-bromaniline, 50 g. KOH and 300cc C₆H₆ is boiled for 7 hours, and 1-methoxy-7-bromophenazine (V), yield 12.3%, m.p. 209-210° (chromatography on Al₂O₃; from ligr.) is obtained; as by-products 0.37g. 2-bromophenazine, m.p. 149-150°, and 1.01 g. 1,7-dimethoxyphenazine, m.p. 148-150° were isolated. A mix-

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USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimya, No 6, 1957, 19224.

ture of 1 g. of 1-methoxy-7-chlorphenazine, 2 g. AlCl_3 and 45cc C_6H_6 is boiled 5 hours, cooled off, decomposed with ice, and treated with conc. HCl, and by alkalizing slightly II, yield 92%, m.p. 191-192° (from alc.) is isolated. Analogically were obtained: from 0.08 g. 1-methoxy-6-chlorphenazine, 0.2 g. AlCl_3 and 10cc C_6H_6 -- 0.5g. I, m.p. 203-204° (from alc.), and from 1 g. V, 2 g. AlBr_3 and 75cc C_6H_6 -- IV, yield 74%, m.p. 197-198° (from alc.). By heating 30 min. of a solution of 0.2 g. of 1-methoxy-8-chlorphenazine in 10 cc 65% H_2SO_4 III, yield 95%, m.p. 167-168° (from aqueous alc.) is obtained. Part 5 see RZhKhim., 1954, 41205.

Card : 2/2

✓ Synthesis and properties of sulfamethine—new tubercular preparation. I. M. Kul'berg, S. G. Riklis, I. A. Vula, and R. P. Vcl'tman (Ukrain. Tuberculosis S. R. Research Inst., Kiev). Zhur. Obrabotki Krem. 26, 175-7 (1958) (Engl. translation: J. Gen. Chem. U.S.S.R. 26, 173-8 (1958)).
J. Gen. Chem. U.S.S.R. 26, 173-8 (1958) (Engl. translation: J. Gen. Chem. U.S.S.R. 26, 173-8 (1958)).
I (2.0 g.) in 3 ml. warm EtOH treated with 28 g. p -Me₂NC₆H₄CHO (2.2 ml. EtOH and the hot soln. treated with 18 ml. concd. H₂SO₄ added dropwise) gave an orange ppt. which after wash. with EtOH and satd. NaHCO₃ gave 38-40 g. sulfamethine [p -Me₂NC₆H₄CH₂NC₆H₄SO₃H] (II), yellow comp. 276-80°. It retards the growth of tubercular organisms. Refluxing an alc. soln. of I and p -Me₂NC₆H₄CHO yields the monomeric azomethine which is inactive against tubercular organisms and m. 230-1°. Treatment of II in EtOH with H₂SCN readily yields I. Both are hydrolyzable by 0.1N HCl at room temp., and the extent of hydrolysis, *detn.* of I colorimetrically by coupling with Bi³⁺ and of II spectrophotometrically. In neutral aq. medium the hydrolysis is slow but *appreciable*, the rate increasing rapidly with time. When the monomer of II is not affected by NaHSO₄, II turns yellow. The x-ray pattern is shown for II and its monomer.

AUTHORS: Yagupol'skiy, L. M., Yufa, P. A. SOV/79-26-1c-49/tc

TITLE: Reaction of Phenyl-Phosphorus Tetrachloride With Diazomethane
(Vzaimodeystviye chetyrekhkloristogo fenilfosfora s diazometanom)

PERIODICAL: Zhurnal obshchey khimii, 1956, Vol 26, Nr 10,
pp 2853 - 2856 (USSR)

ABSTRACT: The reaction, investigated according to reference 1,
of the aliphatic diazo-compounds with phosphorus
halogenides showed that phosphorus tri- and phosphorus
pentachloride react with diazomethane at -60 to -40°.
In the case of the former chloride, the reaction ends
at the stage of the monoalkyl derivative, with the
formation of chloro-methyl-phosphorus dichloride; with
phosphorus penta chloride it continues up to the tri-
alkyl derivative, trichloro-trimethyl phosphine. The
investigation of the reaction of arylphosphorus
chloride with diazomethane suggested itself. It was found
that phenyl-phosphorus tetrachloride reacts most readily
with it at -40°. After hydrolysis, a $\omega\omega'$ - dichloro-
dimethyl-phenyl phosphine oxide was separated out.

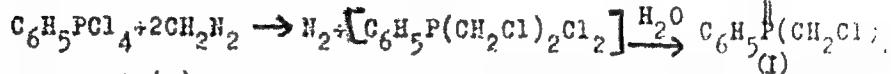
APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963110019-0"

Card 1/3

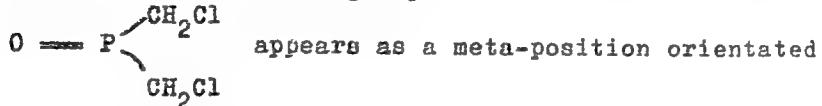
Reaction of Phenyl-Phosphorus Tetrachloride With
Diazomethane

SOV/79-26-16-19, 1

The reaction proceeds via the formation stage of ω, ω' -dichloro-dimethyl-phenyl phosphorus dichloride:



Compound (I), separated out in colorless prisms, is difficultly soluble in water and benzene, and solves well in alcohol and acetone. Its chlorine atoms in the chloromethyl groups do not react easily. The nitration of (I) is achieved by means of a nitrating mixture, the nitro group entering, according to Sandmeyer (Sandmeyyer), into the meta-position (Reaction pattern 2). The same end product (IV) can also be obtained by the counter-synthesis 3. Thus the group



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substituent. There are 3 references, 2 of which are Soviet.

Reaction of Phenyl-Phosphorus Tetrachloride With
Diazomethane

597/79-26-10-1, -1

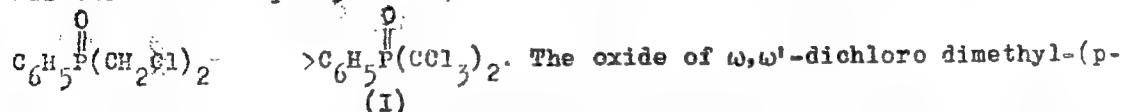
ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR
(Institute of Organic Chemistry at the AS UkrSSR)

SUBMITTED: July 30, 1957

Card 3/3

S/079/60/030/04/56/080
B001/B011AUTHORS: Yagupol'skiy, L. M., Yufa, P. A.TITLE: Phenyl-bis-(trichloromethyl)-phosphinoxide, Phenyl Trichloromethyl Phosphinic Acid, and Their DerivativesPERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1294-1296

TEXT: The authors aimed at synthesizing compounds containing a phosphorus atom linked with the benzene ring and with one or two trichloromethyl groups. The oxide of ω, ω' -dichlorodimethyl phenyl phosphine (Ref. 1), which was chlorinated at 150-215°, served as the initial product. The resulting product was the oxide of phenyl-bis-(trichloromethyl)-phosphine (I)

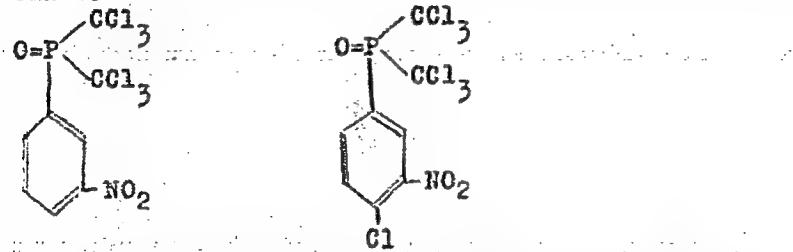


(I)

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Phenyl-bis-(trichloromethyl)-phosphinoxide, Phenyl Trichloromethyl Phosphinic Acid, and Their Derivatives S/079/60/030/04/56/060 B001, B011

bis-(trichloromethyl)-phosphine (II) was obtained. Both oxides (I) and (II) are colorless crystalline products and do not change on the action of aqueous acid- and alkali solutions up to 100°. They are so stable that they can be nitrated at 100° with the nitration mixture:



The ethyl ester of phenyl trichloromethyl phosphinic acid was taken as the initial product of the synthesis of the derivatives of the latter (Ref. 2). Investigations were extended to the reaction of ester (III) with PCl_5 , with the acid chloride (IV) forming according to Scheme 2. In addition to the

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Phenyl-bis-(trichloromethyl)-phosphinoxide,
Phenyl Trichloromethyl Phosphinic Acid, and
Their Derivatives

S/079/60/030/04/56/080
B001/B011

acid chloride (IV) there arises a certain amount of (V), according to Scheme 3. On heating the ester (III) with 3 moles of PCl_5 at $100-160^\circ$, a complex (VI) is formed (Scheme 4), which, on hydrolyzing, gives rise to the acid chloride (IV) in a quantitative yield. The authors became acquainted with the article by P. Biddle, I. Kennedy, I. Willans (Ref. 3) only after having completed their own investigation (Scheme 5). A paper by G. Kamny is mentioned (Ref. 2). There are 4 references, 2 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR
(Institute of Organic Chemistry of the Academy of Sciences,
Ukrainskaya SSR)

SUBMITTED: May 5, 1959

Card 3/3

YAGUPOL'SKIY, L.M.; FIAIKOV, Yu.A.; YUFA, P.A.

2-Trifluoromethylnaphthalene and its derivatives. Zbir. ob.
khim. 31 no.12:3962-3970 D '61. (MRA 15:2)

1. Institut organicheskoy khimii AN Ukrainskoy SSR.
(Naphthalene)

SEREBRIANY, S.B., YUFA, P.A.

Amination of alkyl phenazinium salts. Ukr.khim.zhur. 29 no.3:322-325
'63. (MIRA 16:4)

1. Institut organicheskoy khimii AN UkrSSR.
(Phenazinium compounds) (Amination)

ARDASHEV, K.A., kand. tekhn. nauk; SHEK, V.M., inzh.; YUFEROV, P.A., inzh.

Characteristics of displacement, caving and overflow of rocks
during the use of the shield mining method in "Koksovnia-2"
mine. [Trudy VNIMI no.50:20-31 '63.]

(MIRA 17:10)

YU FAY I.P.

667/401

PHASE I BOOK OF
Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii
18(6)

Anals blagoderyn' metallov (Analysis of Noble Metals) Moscow, 1959. 193 p. Errata slip inserted. 2,700 copies printed.

THE JOURNAL OF CLIMATE

PURPOSE: This collection of articles on the analysis of the noble metals in the study and analysis of the noble metals.

SCOPE: This is a collection of articles on the analysis of the noble metals. It includes studies carried out by the Institut of General and Inorganic Chemistry in, N. S. Kurakov as well as reports presented by scientific organizations and by industrial enterprises at the Third and Fourth All-Union Congresses of the Metal Processing Industry, and by the Institute of Noble Metals held in 1958 and 1957, respectively. The articles and reports describe new organic reagents for gravimetric determination of platinum metals, and physicochemical methods of analysis (spectrophotometric, polarographic and potentiometric). Special attention is given to analysis of the determination of admixtures in alloys of platinum metals, silver, and gold, as well as the refinement of methods of analysis. The collection also includes analytical methods for the analysis of the noble metals.

CONTENTS: The collection contains 100 articles of the literature on the analysis of the noble metals published in the last five years. No group of platinum metals is given. References follow each chapter. The names of the authors are mentioned.

EDITORS: N. K. V. Prokof'ev and A. Ya. Kabanov.

Phenyltin, " Use of Thioacetone for the Concentration of Platinum Compounds, N. K. and M. V. Fedorovko. Use of Nitrogen Substituted Salts of Dithiocarbamic Acids for the Determination of Platinic Metals N. K. Mo Lo Tzu'lo, and L. G. Sal'gata. Preparation of N. K. Mo Lo Tzu'lo and L. G. Sal'gata. Preparation of Platinum, Palladium, and Gold in Hartnied Berthelot's Solution of Platinum, Palladium, and Gold in Hartnied

Silver
Pehantayn, M. K. and M. I. Yus'ko. Spectrophotometric Determination of Rhodium With the Aid of Potassium Iodide
Pecherskaya, M. K. and L. O. Sal'skaya. Determinations by Spectrophotometry
Pecherskaya, M. K., G. I. Ginzburg, and L. O. Sal'skaya.

**ALKALINE-IRON. V.-A. Photoelectric Method for Platinum
Determination of Iridium in Iulfuric Acid Solutions
Spectrophotometric and Potentiometric Methods**

Bogdan, B. O., and T. P. Vitek. Photocolorimetric methods used in the analysis of platinum metals. *Zhur. Analit. Khim.*, 1958, 13, No. 10, p. 2050.

Patentees, W. K., S. A. Yesterday and V. D. H. Smith. Determination of Iron Metals in Refined Silver Barrels. M. B. Va. Refractory Barrels. Determination of Iron Metal by Using Platina Electrolysis.

APPROVED FOR RELEASE: 03/15/2001

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Yu-Fa, T.P.

PHASE I EARTH EXPLORATION 509/3199

18(6)

Л. Н. Г. Курникова

As a result, the *hedgehog* (antivivisectionist) *metabolism* (metabolism of routine retail) *becomes* *hedgehog* (antivivisectionist) *metabolism*.

1959. 193 p. Plates. Map. Illustrated. 2,700 copies printed.

Resp. Ed.: M. K. Tchernitsyn, USSR Academy of Sciences, Corresponding Member; and O. Ye. Zyragintsev, Doctor of Chemical Sciences; of Publishing Houses: T. Q. Levi, and D. N.

PURPOSE: This collection of articles is for scientists engaged in research on the biology of the *Trichomyces* genus.

COVERAGES: This is a collection of articles on the analysis of the noble metals. It includes studies carried out by the Institute of General and Inorganic Chemistry, the N. S. Kurikov (IAI SSSR), as well as reports presented by scientific research organizations and by industrial enterprises at the Third and Fourth Conferences on Noble Metals held in 1954 and 1957, respectively. The conferences described many organic reagents for gravimetric determinations of platinum, palladium, and rhodium, and physicochemical methods of analysis (spectrophotometric, polarographic and potentiometric). Special attention is given to spectral methods for the determination of admixtures in alloys of platinum metals, silver, and gold, as well as in refined noble metals. The collection also includes analytical methods, tables and charts for materials containing metals of the platinum group, as well as a review of the literature on the analysis of platinum metals published in the last five years. No parentheticals are mentioned. References follow each chapter.

Fabrikant, M. K., E. A. Glazunovskaya and L. M. Rudichova. Use of the Ion Exchange Method in the Analysis of Platinum Metals. Report 2. Separation of Rhodium from Iridium 103

Glazunov, V. M., Ye. I. Miktina, and V. N. Alyanshikova. A Method for Preparing Concentrated Solutions and Obtaining Test-Portions of Substances for the Determination of Rhodium in Platinum Metals by Spectral Analysis 115

Glazunov, V. M. Spectral Method for the Determination of Rhodium, Palladium, and Tellurium in Silver-Gold Alloys 128

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Kareyev, A. A. Spectral Analysis of Platinum Alloys Containing Three Components 143

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Avilov, V. B. Effect of Complexation and of the Acid-Base Behavior of the Medium on the Potential of the $\text{Au}^{III}/\text{Au}^0$, Au^I/Au^0 , $\text{Au}^{II}/\text{Au}^I$, and Ag/Ag^0 Systems 150

Avilov, V. B. and V. V. Kosova. Chromatometric Determination of Gold 156

Avilov, V. B., M. V. M. D'yachenko and V. P. Tsvetkov. A Spectrochemical Method for the Determination of Silver in Silver and Lead Alloys Containing Platinum Metals 163

Avilov, V. B. and M. A. Chernova. Dissolving Platinum Currents and Their Alloys with the Aid of an Alternating Current 175

Rudichova, M. I. and L. A. Shulina. New Method for the Determination of Palladium-Silver Alloys 101

Rudichova, M. I. and L. A. Shulina. Methods of Testing and by Chem. and Their Products on a Touchstone 163

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YUVA, Ye.Ya.

Treatment of trichocephaliasis in children. Pediatriia no.6:36-38
M-D '55. (MLRA 9:6)

1. Iz detskogo otdeleniya 1-y Sovetskoy bol'nitsy g. Berdicheva
Zhitomirskoy oblasti (glavnnyy vrach A.N. Kotel'nikov).
(TRICHOCEPHALIASIS, in inf. and child
ther., benzine enema)
(PETROLEUM PRODUCTS, ther. use
benzene enema in trichocephaliasis in child.)

YUPA, Yurka

Course of Botkin's disease concurrent with ascariasis in children.
Med.paraz. i paraz.bol. 27 no.1:109 Ja-F '58. (MIRA 11:4)
(HEPATITIS, INFECTIOUS)
(ASCARIDS AND ASCARIASIS)

YUFA, Ye.Ya.; SOKOLOVA, V.G.

Physical development of children under one year of age in
Lvov. Pediatriia 37 no.6:25-29 Ja '59. (MIRA 12:9)

1. Iz detskoj konsul'tatsii (zav. Ye.Ya.Yufa) 4-go meditsinskogo
ob"yedineniya g.L'vova (glavnnyy vrach T.Ye.Lifanov).
(GROWTH, in inf. & child,
Russian standards (Rus))

YUFA, Ye.Ya. (L'vov)

~~Organization of the control of gastrointestinal diseases in a~~
children's health center. Sov. zdrav. 19 no.6:38-41 '60.
(MIRA 13:9)

(DIGESTIVE ORGANS--DISEASES)
(GASTROENTEROLOGY)